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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/664,875	09/19/2000	Herbert D. Jellinek	FUSN1-01306US0	5331
28554	7590	08/16/2004	EXAMINER	
VIERRA MAGEN MARCUS HARMON & DENIRO LLP 685 MARKET STREET, SUITE 540 SAN FRANCISCO, CA 94105			WON, MICHAEL YOUNG	
			ART UNIT	PAPER NUMBER
			2155	

DATE MAILED: 08/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

JK

Office Action Summary

Application No.

09/664,875

Applicant(s)

JELLINEK, HERBERT D.

Examiner

Michael Y Won

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 May 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9, 11-16, 18 and 19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-16, 18 and 19 is/are rejected.
- 7) ☒ Claim(s) 10 and 17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. Claims 1, 4, 5, and 12 have been amended. New claim 19 has been added.
2. Claims 1-19 have been examined and are pending with this action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

3. Claims 1, 2, 4-8, 11-15, 18, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by Heie (US 6,473,621 B1).

INDEPENDENT:

As per claims 1 and 4, Heie teaches a method of operating a server machine to expand or a server machine (see Fig.6) for expanding input strings of characters received from client machines (see Fig.1a) that include character input devices (see col.1, lines 7-10), comprising: a processor (see Fig.1b, #111); and connecting circuitry for connecting the processor to a user's client machine (see Fig.1b) that includes a character input device (see col.2, line 64 to col.3, line 2); storing one or more mappings between abbreviated substrings and expanded substrings (see Fig.2a & Fig.2b; and col.3, lines 11-15); receiving a request to perform an action including at least one of an email operation, a chat operation, and a calendar operation (see col.1, lines 14-20 & 38-41); receiving an unexpanded input string of characters associated with said request from a client machine that includes a character input device, the unexpanded input string including at least one abbreviated substring (see col.2, lines 8-21), each abbreviated substring belonging to a set of abbreviated substrings in an applicable mapping of said one or more mappings (see col.1, lines 61-65); automatically finding one of the abbreviated substrings based on the preceding and following word delimiters (see col.2, lines 13-17); determining, based on said applicable mapping, that the abbreviated substring corresponds to a particular expanded substring (see col.3, lines 16-19); producing an expanded input string that is a version of the unexpanded input string with the abbreviated substring replaced by said particular expanded substring (see Fig.3a to Fig.3d; and col.1, lines 61-65); and performing action including

incorporating said expanded substring into display data (see col.4, line 2-5 and col.5, lines 54-57) associated with said at least one of an email operation, a chat operation, and a calendar operation (see col.1, lines 14-20 & 38-41; col.6, lines 38-44 & 60-65).

NOTE: Although describes wherein the storing one or more mappings, the receiving a request and the unexpanded input string, and the performing action occurs at the user device, Heie further teaches wherein the teachings may be implemented "at a fixed network side of a wireless connection", (i.e., communication and processing via a server: see Fig.6 and col.6, line 36 to col.7, line 15).

As per claims 5 and 12, Heie teaches a method and a computer-readable medium carrying instructions for performing a server action (see col.7, line 4-7) that requires user input, the method and instructions comprising the steps of: storing, at a location accessible to a server machine (see Fig.6, #605), one or more mappings between abbreviated substrings and expanded substrings (see Fig.2a & Fig.2b; and col.3, lines 11-15); receiving, at the server machine (see NOTE above), a request to perform said server action, said server action including at least one of an email operation, a chat operation, and a calendar operation (see col.1, lines 14-20 & 38-41); receiving from a client machine (see Fig.1b) an unexpanded input string that includes an abbreviated substring associated with said request (see col.2, lines 8-21); determining whether said abbreviated substring is constrained to be identically produced (see col.3, lines 16-19: "defined term"); if said abbreviated substring is constrained to be identically produced, then performing said server action using said

abbreviated substring without expanding said abbreviated substring (implicit); and if said abbreviated substring is not constrained to be identically produced, then performing the steps of inspecting a mapping, of said one or more mappings, to determine an expanded substring that corresponds to said unexpanded substring (see col.3, lines 11-19); and performing said server action (see NOTE above) including incorporating said expanded substring into display data (see col.4, line 2-5 and col.5, lines 54-57) associated with said at least one of an email operation, a chat operation, and a calendar operation (see col.1, lines 14-20 & 38-41; col.6, lines 38-44 & 60-65).

DEPENDENT:

As per claim 2, Heie further teaches wherein one of the abbreviated substrings begins with a character and represents an expanded substring that begins with the same character (see col.3, line 66 to col.4, line11) and in which the step of determining that the abbreviated substring corresponds to a particular expanded substring comprises: determining the case of the beginning character in the abbreviated substring (see col.4, lines 6-10); and giving the determined case to the beginning character in the expanded substring (inherent).

As per claims 6 and 13, Heie further teaches wherein: the client machine is operated by a particular user (see col.6, lines 53-57); and the method further includes the step of determining which mapping of said one or more mappings to inspect based on identity of said particular user (see col.6, lines 51-57).

As per claims 7 and 14, Heie further teaches wherein the step of determining which mapping to inspect includes the steps of: identifying which group of a plurality of groups includes said particular user, and identifying a mapping associated with the group that includes said particular user (see col.7, line 4-15).

As per claims 8 and 15, Heie teaches of further comprising the step of determining which mapping of said one or more mappings to inspect based on which type of server action is requested by said client machine (see col.7, lines 4-15).

As per claims 11 and 18, Heie further teaches wherein the step of performing said server action using said expanded substring is performed without sending said expanded substring to said client machine (see col.6, line 57 to col.7, line 3).

As per claim 19, Heie further teaches wherein said preceding and following delimiters include all non-alphanumeric characters to indicate one of said abbreviated substrings (see col.3, lines 22-26).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 3, 9, and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Heie (US 6,473,621 B1) in view of Cragun et al. (US 5,804,803 A).

As per claim 3, Heie further teaches wherein one of the abbreviated substrings represents expanded substrings that depend on time (see col.2, lines 22-27). Heie does not explicitly teach the step of determining that the abbreviated substring corresponds to a particular expanded substring comprises: performing a computation to obtain an expanded substring based on the current time; and producing the expanded input string with the abbreviated substring replaced by the expanded substring based on the current time. Cragun teaches of performing a computation to obtain an expanded substring based on the current time; and producing the expanded input string with the abbreviated substring replaced by the expanded substring based on the current time (see col.10, lines 34-40). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the teachings of Cragun within the system of Heie by implementing producing expanded substrings based on time within the input string character expanding method because Cragun teaches that "In some cases the customer data must be manipulated to produce the query" and further because such an implementation further reduces the number of keystrokes necessary which is the objective of Heie.

As per claims 9 and 16, Heie teaches of determining which substring of a plurality of substrings corresponds to said unexpanded substring, Heie does not explicitly teach of further comprising determining a current time; and determining the

corresponding substring based on the current time. Cragun teaches of determining a current time (inherent: see col.10, lines 36-38); and determining the corresponding substring based on the current time (see col.10, lines 34-35). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to employ the teachings of Cragun within the system of Heie by implementing producing expanded substrings based on time within the input string character expanding method because Cragun teaches that "In some cases the customer data must be manipulated to produce the query" and further because such an implementation further reduces the number of keystrokes necessary which is the objective of Heie.

Allowable Subject Matter

5. Claims 10 and 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: Prior art of records Heie (US 6,473,621 B1) and Cragun et al. (US 5,804,803 A), do not disclose, teach, or suggest the claim limitation of wherein the step of determining which substring corresponds to said unexpanded substring includes: expanding said unexpanded substring to a first expanded substring without regard to

current time; and expanding said first expanded substring to a second expanded substring based on the current time as recited in claims 10 and 17.

Response to Arguments

6. Applicant's arguments with respect to claims 1-19 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

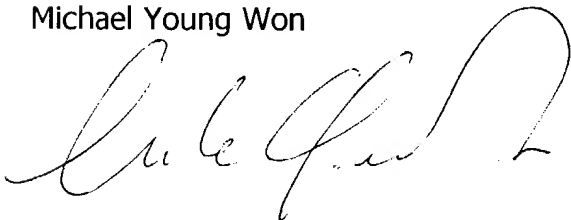
the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Y Won whose telephone number is 703-605-4241. The examiner can normally be reached on M-Th: 6AM-3PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T Alam can be reached on 703-308-6662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Young Won



August 5, 2004


HOSAIN ALAM
SUPERVISORY PATENT EXAMINER